

## Day 1: Tuesday, October 25

8:00-9:00 am	<p align="center"><b>Registration &amp; Hosted Breakfast</b></p> <p align="center"><i>Wes Watkins Center Foyer &amp; International Exhibit Hall 111-112</i></p>		
9:00-9:30 am	<p align="center"><b>Welcome &amp; Opening Ceremonies</b></p> <p align="center">Peter O'Rourke, Executive Director, NAPSG Foundation * Dr. David Alexander, Senior Science Advisor, DHS Science and Technology Directorate * Ed Kirtley, Assistant Dean, CEAT Engineering Extension, OSU Presentation of Colors by the Honor Guard</p> <p align="center"><i>International Exhibit Hall 111-112</i></p>		
9:30-10:30 am	<p align="center"><b>Clarity, Consistency, and Repetition: Understanding Effective Visual Communication Before, During, and After Emergencies</b></p> <p>It is essential that visual and text-based communication before, during, and after emergencies consider cognitive phenomena of people not experienced in crisis situations as well as applies the foundation of information design principles. There is also a difference in deliverable and expectations when communicating internally and to the public. Claudine's work conveys the importance of spatial awareness and risk literacy; encourages sustained cognitive recall for both in-community and out-of-community members in risk areas; and creates and distributes emergency information that is coherent, cohesive, and memorable.</p> <p align="center"><b>Presenter:</b> Claudine Jaenichen, Professor, Chapman University and Executive Board of Directors, Design Network for Emergency Management (DNEM)</p> <p align="center"><i>International Exhibit Hall 111-112</i></p>		
10:30-10:45 am	<p align="center"><b>Morning Break</b></p> <p align="center"><i>International Exhibit Hall 111-112</i></p>		
10:45-12:00 pm	<p align="center"><b>Blurring the Lines: GIS &amp; Data Science/Analytics</b></p> <p>Learn the basics of data analytics and machine learning, examples of how they are impacting emergency management today, and why the GIS community needs to pay attention to these emerging capabilities.</p> <p align="center"><b>Presenters:</b> *Chris Vaughan, Geospatial Information Officer, FEMA *Catherine Bohn, GISP, Associate Vice President, Dewberry *Paul Dean, Project Manager, Dewberry *Sid Pandey, Senior Geospatial Technology Manager, Dewberry</p> <p align="center"><i>Executive Seminar Room 108</i></p>	<p align="center"><b>Sharing is Caring: A Technical Approach to Secure Collaboration</b></p> <p>Participants will learn about the technical approach to implement data sharing with trusted interagency partners. Topics will include group sharing, partnered collaboration, and custom roles.</p> <p align="center"><b>Presenter:</b> *Melissa Ruiz, Geospatial Developer, Texas Division of Emergency Management *Jeff Baranyi, Lead Solution Engineer, Emergency Management and Disaster Response, Esri</p> <p align="center"><i>Executive Seminar Room 109</i></p>	<p align="center"><b>Joining Forces: Civilian and Military Symbology Feedback Session</b></p> <p>Participants will get a background on the military's successful history building and transmitting standard symbology, learn about a current initiative to incorporate NAPSG's standardized incident symbology to support military and civilian interoperability during emergencies, practice using a symbology dictionary, and share ideas for future symbol requirements.</p> <p align="center"><b>Presenters:</b> *Michael Epler, Senior Data Engineer/Technical Advisor, DISA *Bill McGrane, Chairman, Symbology Standards Management Committee (SSMC), DISA *Chris Rogers, Lieutenant, Fire Service SME, Kirkland Fire Department</p> <p align="center"><i>Legacy Room 101</i></p>
12:00-1:00 pm	<p align="center"><b>Hosted Lunch</b></p> <p align="center"><i>International Exhibit Hall 111-112</i></p>		

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<p>1:00-2:15 pm</p>	<p align="center"><b><i>Efficient and Accurate Communications Between Public Safety and the Infrastructure Community</i></b></p> <p>Participants will learn about building successful communication and data sharing between public safety and the infrastructure community during catastrophic events. In addition, this session will explain how to automate notifications for emergencies, including forest fires, that impact utilities.</p> <p align="center"><b>Presenter:</b> *Misty Wise, Executive Director, South Carolina 811</p> <p align="center"><i>Executive Seminar Room 108</i></p>	<p align="center"><b><i>Coordinating the Chaos: Integrating Emergency Management into Carceral Preparedness</i></b></p> <p>A multi-state research project will be presented, which examined how the Emergency Management team can help "coordinate the chaos" of carceral preparedness. Topics include, THIRA, Vulnerability Mapping, WebEOC, Interoperability, and Evacuee tracking.</p> <p align="center"><b>Presenter:</b> *Carl Dement, PhD, UCO School of Criminal Justice</p> <p align="center"><i>Executive Seminar Room 109</i></p>	<p align="center"><b><i>Maps, Stats &amp; Designs: Leveraging Cartographic Concepts to Improve Decision Making</i></b></p> <p>Take a deep dive into cartographic concepts and learn how map design, data, symbology, and statistics can influence how people interact with and make sense of map information. Participants will be exposed to cartographic fundamentals, mapping technology, and a focused discussion on symbology to help them build better maps in the future. Bring your creative side - activities will be included.</p> <p align="center"><b>Presenters:</b> *Emily Meriam, Product Engineer II/Cartographer, Esri *Chris Rogers, Lieutenant, Fire Service SME, Kirkland Fire Department (WA) *Claudine Jaenichen, Professor, Chapman University and Executive Board of Directors, Design Network for Emergency Management (DNEM)</p> <p align="center"><i>Legacy Room 101</i></p>	<p align="center"><b><i>A View from Above: Improving Emergency Response with UAS</i></b></p> <p>In this workshop, participants will learn how to better leverage a drone program and integrate the data into actionable items. Students will be learning about the latest technology and research around the use of UAS. A discussion on best practices while flying a route and processing the data into usable data will be included in the workshop.</p> <p align="center"><b>Presenters:</b> *Jamey D. Jacob, Professor, Oklahoma State University *John Hendrix, PhD, Chair and Professor of Aerospace Engineering</p> <p align="center"><i>Seminar Room 209</i></p>
<p align="center"><b>Afternoon Break</b> <i>International Exhibit Hall 111-112</i></p>				
<p>2:30-3:45 pm</p>	<p align="center"><b><i>Accepting Our Robot Overlords: Getting Started on using Automation</i></b></p> <p>This session will be a technical class on Automation. Participants will learn various methods to automate tasks, such as automatic replies, automatically run scripts, and offline options.</p> <p align="center"><b>Presenter:</b> *Adam Fackler, GIS Technician, NAPSG Foundation</p> <p align="center"><i>Executive Seminar Room 108</i></p>	<p align="center"><b><i>Innovative Research informs Decision Making in Emergency Management</i></b></p> <p>Participants will have the opportunity to hear from graduate students on the research they conducted on solving problems facing the emergency management community. These students identified real-world problems and helped develop solutions based on their educational course work.</p> <p align="center"><b>Presenters:</b> *Haley Murphy, PhD, Program Coordinator for the Fire and Emergency Management Administration, OSU *Oklahoma State University Graduate Students</p> <p align="center"><i>Executive Seminar Room 109</i></p>	<p align="center"><b><i>Maps, Stats &amp; Designs: Leveraging Cartographic Concepts to Improve Decision Making (cont'd)</i></b></p> <p>Take a deep dive into cartographic concepts and learn how map design, data, symbology, and statistics can influence how people interact with and make sense of map information. Participants will be exposed to cartographic fundamentals, mapping technology, and a focused discussion on symbology to help them build better maps in the future. Bring your creative side - activities will be included.</p> <p align="center"><b>Presenters:</b> *Emily Meriam, Product Engineer II/Cartographer, Esri *Chris Rogers, Lieutenant, Kirkland Fire Department *Claudine Jaenichen, Professor, Chapman University and Executive Board of Directors, Design Network for Emergency Management (DNEM)</p> <p align="center"><i>Legacy Room 101</i></p>	<p align="center"><b><i>A View from Above: Improving Emergency Response with UAS (cont'd)</i></b></p> <p>In this workshop, participants will learn how to better leverage a drone program and integrate the data into actionable items. Students will be learning about the latest technology and research around the use of UAS. A discussion on best practices while flying a route and processing the data into usable data will be included in the workshop.</p> <p align="center"><b>Presenters:</b> *Jamey D. Jacob, Professor, Oklahoma State University *John Hendrix, PhD, Chair and Professor of Aerospace Engineering</p> <p align="center"><i>Seminar Room 209</i></p>
<p>4:00-4:30 pm</p>	<p align="center"><b>Day 1 Debrief &amp; Closing Remarks</b> Peter O'Rourke, Executive Director, NAPSG Foundation <i>International Exhibit Hall 111-112</i></p>			
<p>5:00-8:00 pm</p>	<p align="center"><b>NAPSG Foundation Hosted Reception: 2022 Awards for Excellence in Public Safety GIS</b> <i>Student Union Building, 301 Student Union Starlight Terrace Room 465</i></p>			

**Day 2: Wednesday, October 26**

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9:30-10:30 am	<p align="center"><b>Preparing As A Leader For The Future</b></p> <p align="center">Leadership is critical for all aspects of public safety. This panel will bring together the academic community and the practitioner to discuss the current and future challenges affecting our organizations and industry.</p> <p align="center"><b>Panelists:</b></p> <p align="center">*Justin Kates, Director of Emergency Management &amp; Communications, City of Somerville (MA)          *Ed Kirtley, Assistant Dean, CEAT Engineering Extension, OSU          *Haley Murphy, PhD, Associate Professor and FEMP Program Coordinator, OSU          *Federal Representative to be announced</p> <p align="center"><i>International Exhibit Hall 111-112</i></p>			
10:30-10:45 am	<p align="center"><b>Morning Break</b></p> <p align="center"><i>International Exhibit Hall 111-112</i></p>			
10:45-12:00 pm	<p align="center"><b>Speed Data'ing</b></p> <p>Rapid-fire introduction and overview of the National Water Model, Esri Living Atlas, #PhotoMappers, Tool for Emergency Management and Prioritizing Operations (TEMPO), and HERE Data.</p> <p align="center"><b>Protect and serve your community with HERE solutions</b></p> <p align="center">*James Nenaber, Account Executive Federal Civilian Agencies, Public Sector AMER</p> <p align="center"><b>NOAA's National Water Model and the Next Generation of Water Information</b></p> <p align="center">*Whitney Flynn, CEM, Hydrologist, FEMA Liaison to the National Water Center (Tuscaloosa)</p> <p align="center"><b>Esri's Living Atlas</b></p> <p align="center">*Jeff Baranyi, Lead Solution Engineer, Emergency Management and Disaster Response, Esri</p> <p align="center"><b>US-based volunteers use social media to help decisions makers during disasters</b></p> <p align="center">*Erin Arkison and Katie Picchione, GISCorps Disaster Response Subcommittee</p> <p align="center"><b>TEMPO: a Tool for Emergency Management and Prioritizing Operations</b></p> <p align="center">*Garrett Tate, PhD, Senior Data Scientist &amp; Research Associate, New Light Technologies</p> <p align="center"><i>Executive Seminar Room 108</i></p>	<p align="center"><b>Lifesaving Maps: A US&amp;R Lab and Workshop</b></p> <p>This session is designed for Urban Search and Rescue (US&amp;R) field personnel and GIS staff who support US&amp;R. Participants will be introduced to common geospatial workflows for US&amp;R, including field data collection, navigating the Search and Rescue Common Operating Platform (SARCOP), search coverage analysis, and utilization of post-event imagery.</p> <p align="center"><b>Presenters:</b></p> <p align="center">*Jared Doke, Program Manager, NAPSG Foundation</p> <p align="center">*Paul Doherty, PhD, Emergency Management Specialist, FEMA</p> <p align="center"><i>Seminar Room 209</i></p>	<p align="center"><b>Small-Town GIS</b></p> <p>Small communities across the country are challenged with minimal resources and budget. This session will host a collaborative discussion around simple solutions to geo-enable public safety to inform better decision making. We will look at simple tools and capabilities that can be implemented with little effort and how they make a difference.</p> <p align="center"><b>Presenter:</b></p> <p align="center">*Tommy Hicks, Deputy Executive Director, NAPSG Foundation</p> <p align="center"><i>Legacy Room 101</i></p>	<p align="center"><b>Damage Assessments: Advancing Local and Federal Coordination</b></p> <p>Learn how the state of Oregon is coordinating a state-wide initiative to support the collection and sharing of damage assessment data, and the innovative process FEMA has developed for rapidly collecting geospatial damage assessments to support emergency declarations.</p> <p align="center"><b>Presenters:</b></p> <p align="center">*Daniel Stoelb, GIS Program Coordinator, Oregon Department of Emergency Management</p> <p align="center">*Kimberly Stephens, Program Analyst, FEMA</p> <p align="center"><i>Executive Seminar Room 109</i></p>
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<p>1:00-2:15 pm</p>	<p><b>Using AI technology to better prepare for, respond to, and recover from extreme weather events</b></p> <p>Hurricanes. Wildfires. Flooding. Extreme weather events never strike the same way twice, so now more than ever, it's essential to utilize technology to plan and deliver the critical aid necessary to save lives, reduce suffering, protect property, and recover from natural disasters. In this session, we'll discuss the impact artificial intelligence has on emergency preparedness and response, and how agencies today have mitigated threats by utilizing AI and GIS solutions.</p> <p><b>Presenters:</b></p> <p>*Mike Cox, Director of Fire, Rescue, and EMS, Esri *Joel Tetreault, Senior Director, Research, Datamir</p> <p><i>Executive Seminar Room 108</i></p>	<p><b>Lifesaving Maps: A US&amp;R Lab and Workshop (cont'd)</b></p> <p>This session is designed for Urban Search and Rescue (US&amp;R) field personnel and GIS staff who support US&amp;R. Participants will be introduced to common geospatial workflows for US&amp;R, including field data collection, navigating the Search and Rescue Common Operating Platform (SARCOP), search coverage analysis, and utilization of post-event imagery.</p> <p><b>Presenters:</b></p> <p>*Jared Doke, Program Manager, NAPSG Foundation *Paul Doherty, PhD, Emergency Management Specialist, FEMA</p> <p><i>Seminar Room 209</i></p>	<p><b>Creating Resilience through Collaboration: Local, State, and Federal GIS Workshop</b></p> <p>Part 1: Local, State, and Federal GIS staff will participate in a hands-on workshop for updating USA Structures to include high-quality local data.</p> <p>Part 2: FEMA and SLTT GIS partners will come together to share resources, update region and local geospatial game plans, and codify methods for sharing and collaborating during an incident.</p> <p><b>Presenters:</b></p> <p>Oak Ridge National Labs (ORNL), FEMA Response Geospatial Office, FEMA Recovery, FEMA Regional Geospatial Coordinators</p> <p><i>Legacy Room 101</i></p>	<p><b>Don't Box Me In: Virtual EOC Considerations</b></p> <p>Participants will take a deep dive into common virtual EOC workflows (such as ingesting geospatial information, creating automated workflows, setting up collaborative systems, etc.) and learn about best practices from the public and private sector. Technical and non-technical staff will explore different levels of autonomy, how to facilitate communications across multiple platforms, and case studies from public and private organizations.</p> <p><b>Presenters:</b></p> <p>*Kevin Kay, Director, NAPSG Foundation *Justin Kates, Director of Emergency Management &amp; Communications, City of Somerville (MA) *Lucas McDonald, Director of Emergency Operations, Walmart *Cassandra Stelter, Associate Director of Business Continuity and Compliance, Exelixis</p> <p><i>Executive Seminar 109</i></p>
<p><b>Afternoon Break</b> <i>International Exhibit Hall 111-112</i></p>				
<p>2:30-3:45 pm</p>	<p><b>ArcGIS Applications: Informing Incident Risk Assessments for HazMat Transportation in Oklahoma</b></p> <p>This session will provide an overview of an ongoing research project at Oklahoma State University, funded by the Oklahoma Department of Emergency Management and Homeland Security. The focus will be on a key product, an ArcGIS application developed to inform LEPCs, first responders, and other local bodies in Oklahoma counties as to what dangerous materials may be transported on county roads and highways with an assessment of HazMat incident risk to serve as input to their emergency preparedness planning activities.</p> <p><b>Presenters:</b></p> <p>*Manjunath Kamath, PhD, Professor, OSU *Scott Frazier, PhD, Associate Professor, OSU *Diana Rodriguez-Coca, PhD, Assistant Professor, OSU</p> <p><i>Executive Seminar Room 109</i></p>	<p><b>Lifesaving Maps: A US&amp;R Lab and Workshop (cont'd)</b></p> <p>This session is designed for Urban Search and Rescue (US&amp;R) field personnel and GIS staff who support US&amp;R. Participants will be introduced to common geospatial workflows for US&amp;R, including field data collection, navigating the Search and Rescue Common Operating Platform (SARCOP), search coverage analysis, and utilization of post-event imagery.</p> <p><b>Presenters:</b></p> <p>*Jared Doke, Program Manager, NAPSG Foundation *Paul Doherty, PhD, Emergency Management Specialist, FEMA</p> <p><i>Seminar Room 209</i></p>	<p><b>Creating Resilience through Collaboration: Local, State, and Federal GIS Workshop (cont'd)</b></p> <p>Part 1: Local, State, and Federal GIS staff will participate in a hands-on workshop for updating USA Structures to include high-quality local data.</p> <p>Part 2: FEMA and SLTT GIS partners will come together to share resources, update region and local geospatial game plans, and codify methods for sharing and collaborating during an incident.</p> <p><b>Presenters:</b></p> <p>Oak Ridge National Labs (ORNL), FEMA Response Geospatial Office, FEMA Recovery, FEMA Regional Geospatial Coordinators</p> <p><i>Legacy Room 101</i></p>	<p><b>Don't Box Me In: Virtual EOC Considerations (cont'd)</b></p> <p>Participants will take a deep dive into common virtual EOC workflows (such as ingesting geospatial information, creating automated workflows, setting up collaborative systems, etc.) and learn about best practices from the public and private sector. Technical and non-technical staff will explore different levels of autonomy, how to facilitate communications across multiple platforms, and case studies from public and private organizations.</p> <p><b>Presenters:</b></p> <p>*Kevin Kay, Director, NAPSG Foundation *Justin Kates, Director of Emergency Management &amp; Communications, City of Somerville (MA) *Lucas McDonald, Director of Emergency Operations, Walmart *Cassandra Stelter, Associate Director of Business Continuity and Compliance, Exelixis</p> <p><i>Executive Seminar 109</i></p>
<p>4:00-4:30 pm</p>	<p><b>Day 2 Debrief &amp; Closing Remarks</b> Peter O'Rourke, Executive Director, NAPSG Foundation <i>International Exhibit Hall 111-112</i></p>			
<p>5:00-9:00 pm</p>	<p><b>NAPSG Foundation Hosted Social</b> <i>The Salty Bronc Saloon</i> 911 W 5th Ave, Stillwater, OK 74074</p>			